

Title (en)

DEVICE FOR HYPERSPECTRAL HOLOGRAPHIC MICROSCOPY BY SENSOR FUSION

Title (de)

VORRICHTUNG ZUR HYPERSPEKTRALEN HOLOGRAPHISCHEN MIKROSKOPIE DURCH SENSORFUSION

Title (fr)

DISPOSITIF DE MICROSCOPIE HOLOGRAPHIQUE HYPERSPECTRALE PAR FUSION DE CAPTEURS

Publication

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Application

EP 20704294 A 20200211

Priority

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Abstract (en)

[origin: WO2020165176A1] The invention concerns a device for the holographic and hyperspectral measurement and analysis (2) of a sample (3), comprising: - an acquisition means (2) for acquiring a diffracted image (11) of an image of the sample (3); and interference patterns (12) of a reference light signal (R) and the light signal (O) having passed through the sample (3) to be measured and analysed; and - a means for illuminating the sample (3) focused on the sample (3); and - a means for reconstructing and analysing (1) the hyperspectral holographic image comprising a deep convolutional neural network generating an image for analysis and detection of particularities in the sample.

IPC 8 full level

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CPC (source: EP US)

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